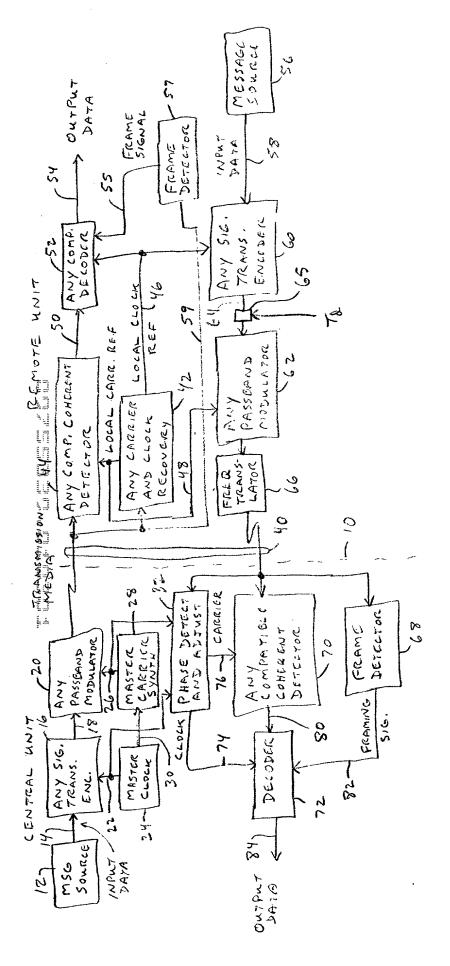


Initial 2-Step Training Algorithm

2-STEP INITIAL EQUALIZATION TRAINING FIG. 60

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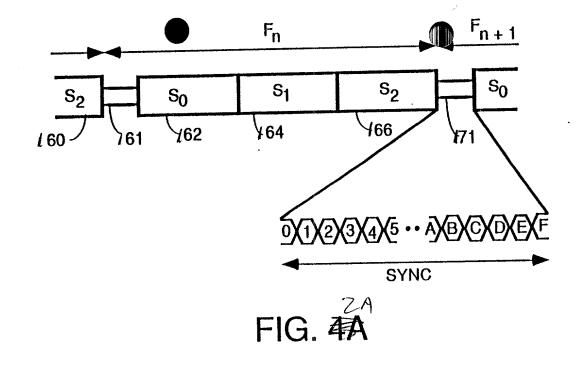


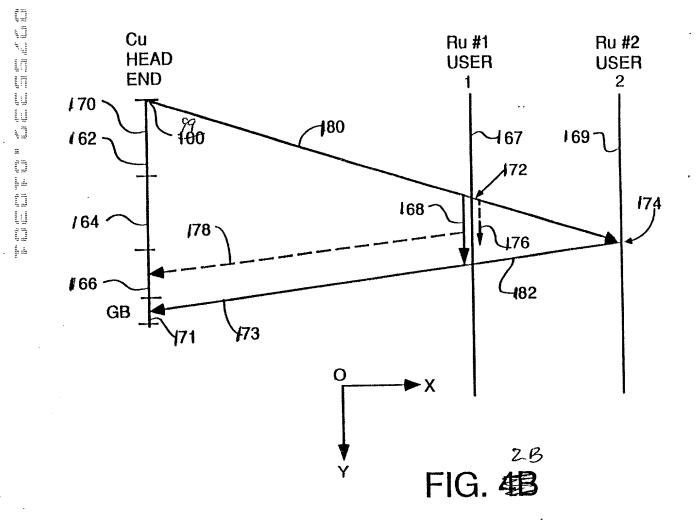
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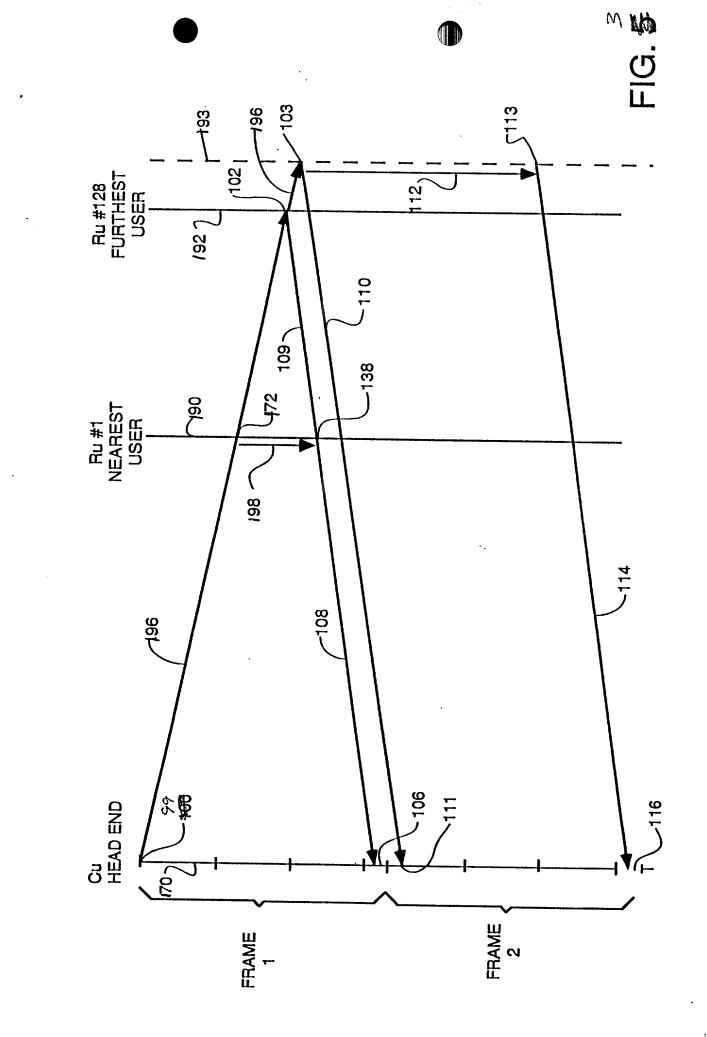
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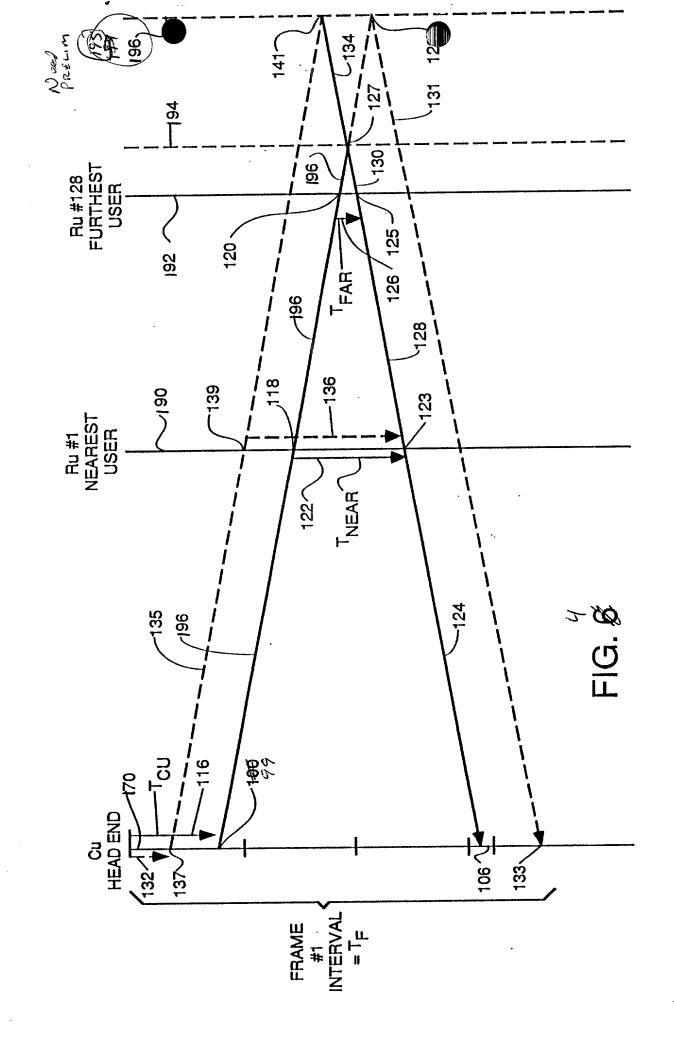




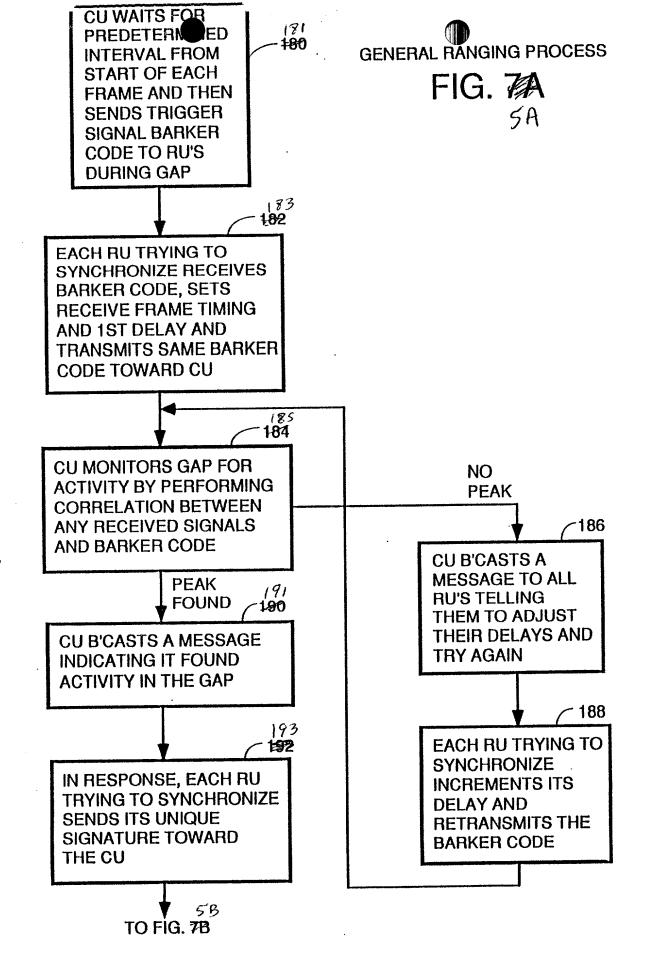
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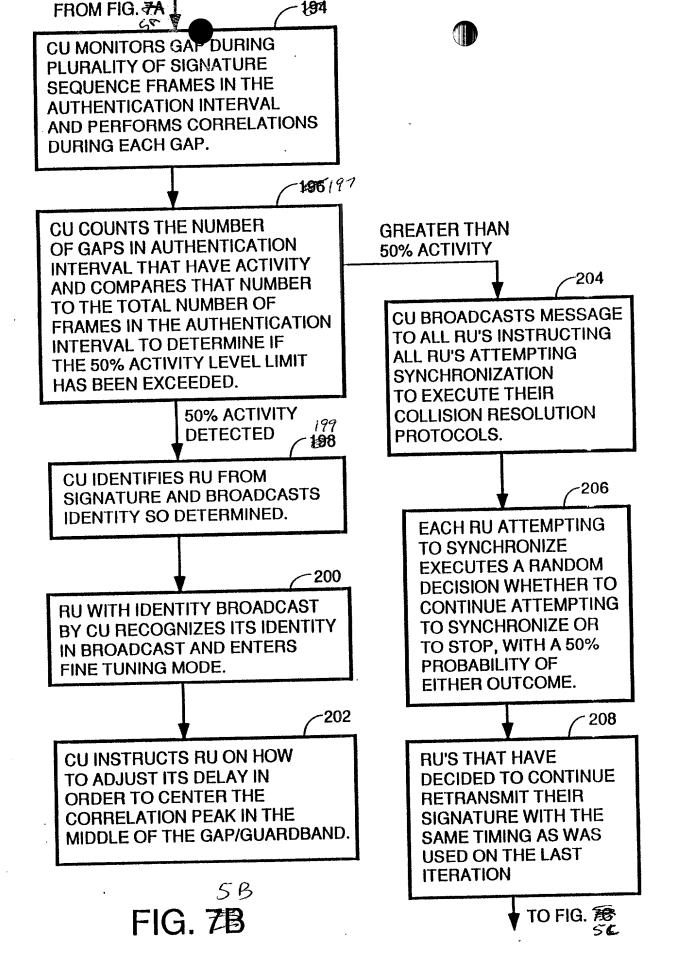
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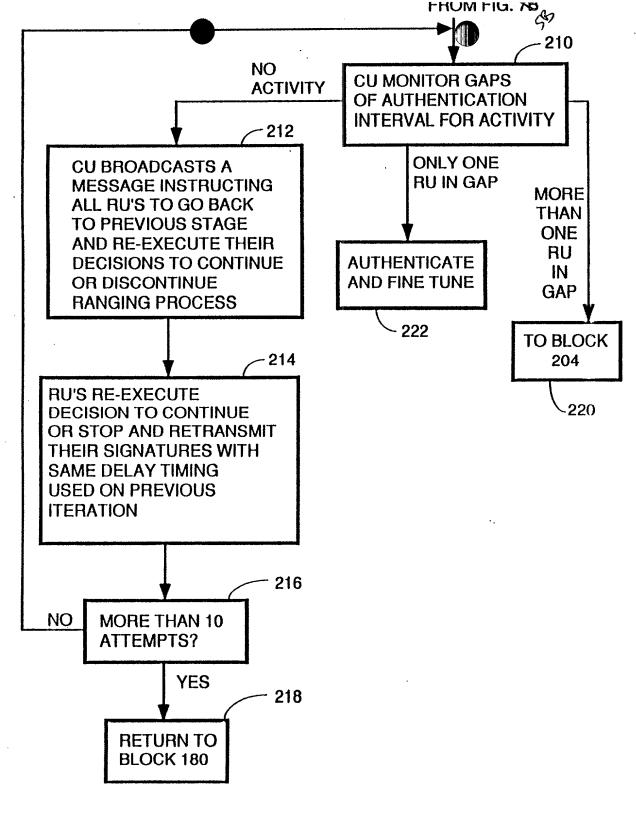
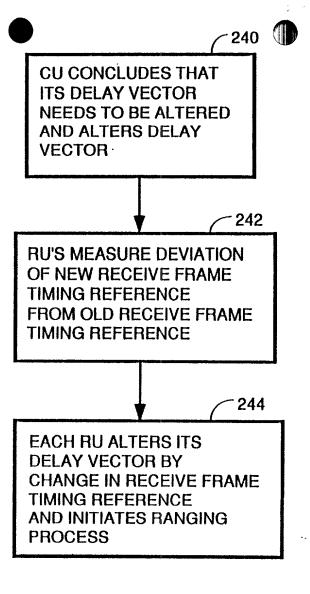


FIG. 76

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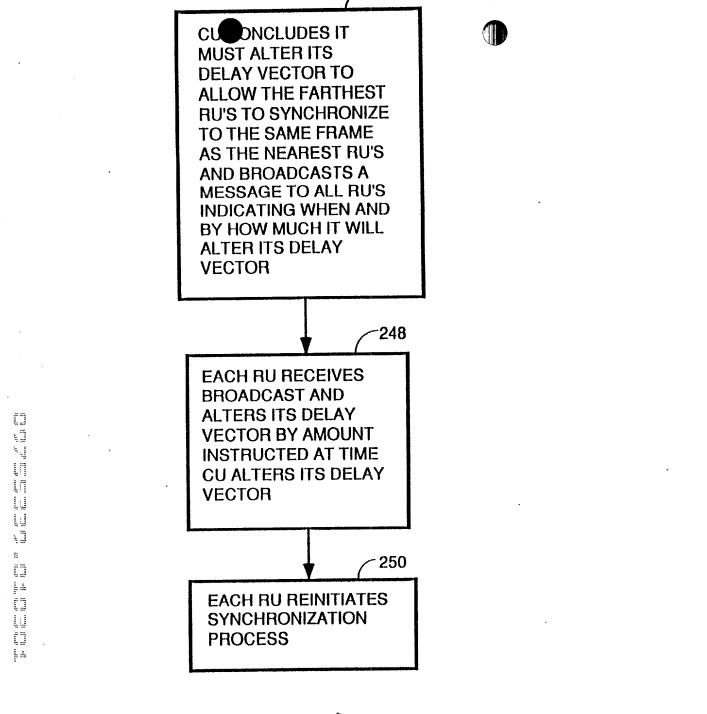
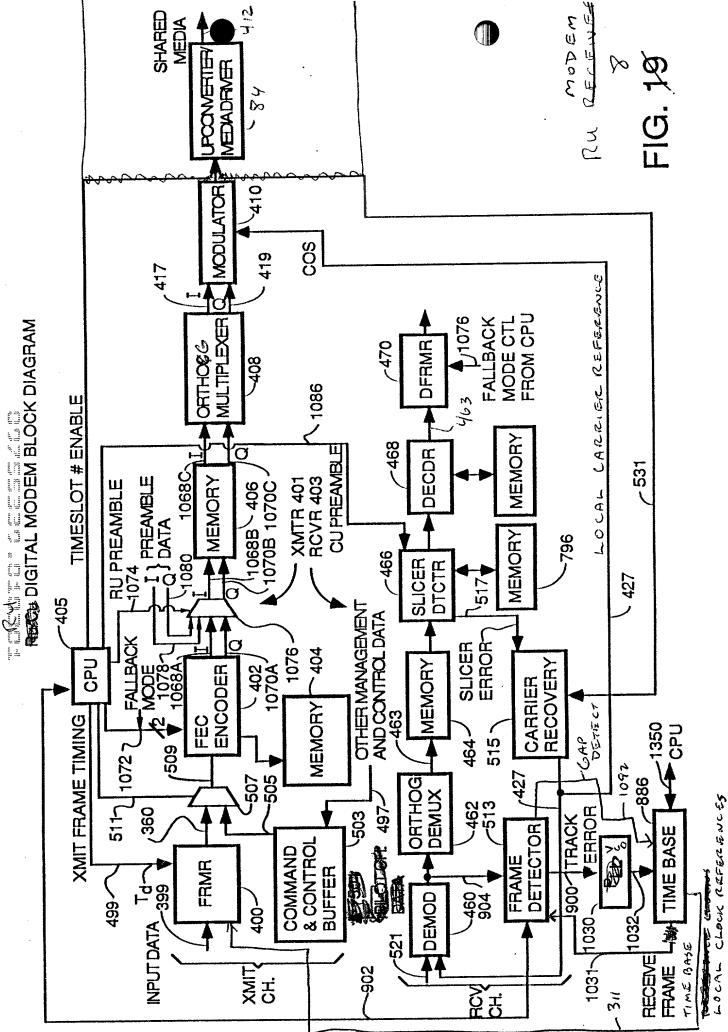
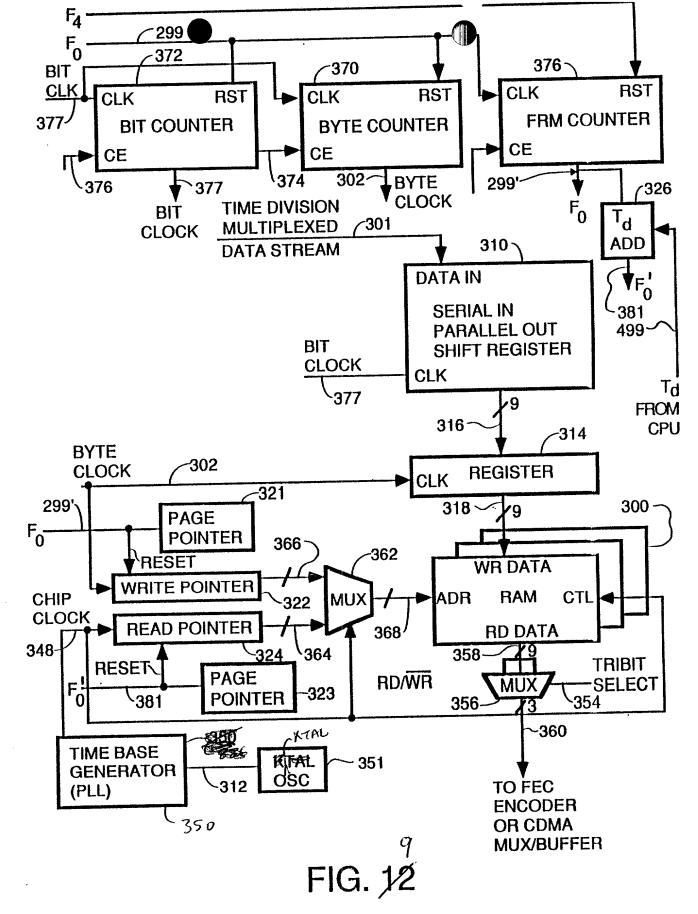


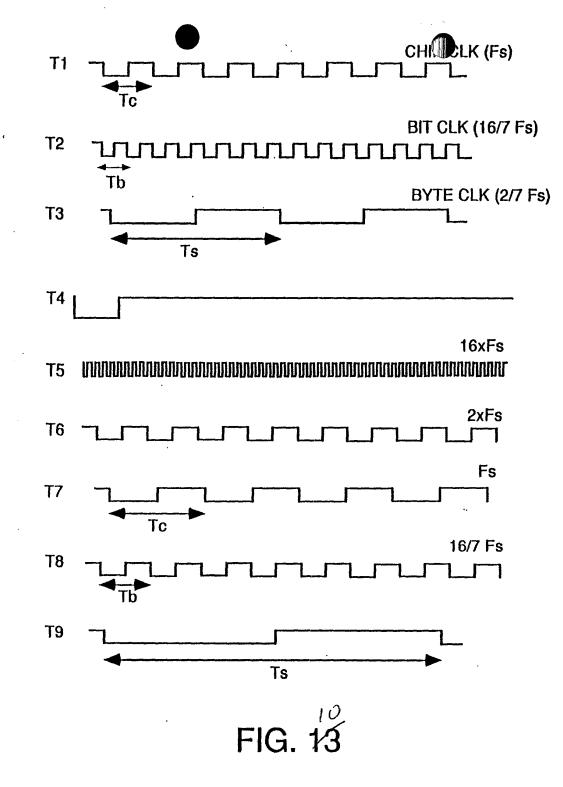
FIG. 9 PRECURSOR EMBODIMENT



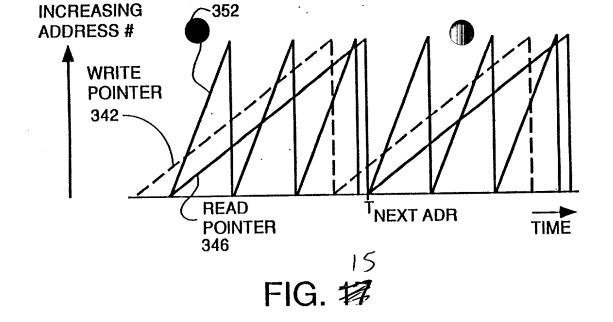


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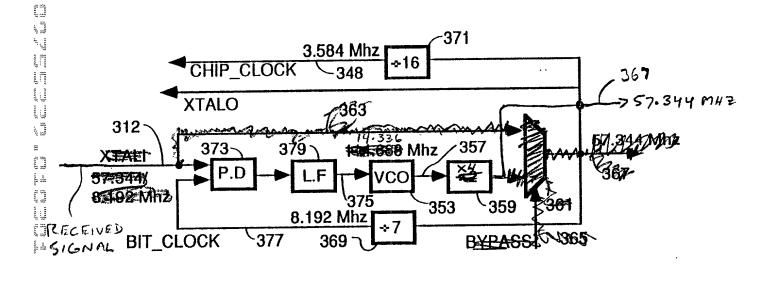
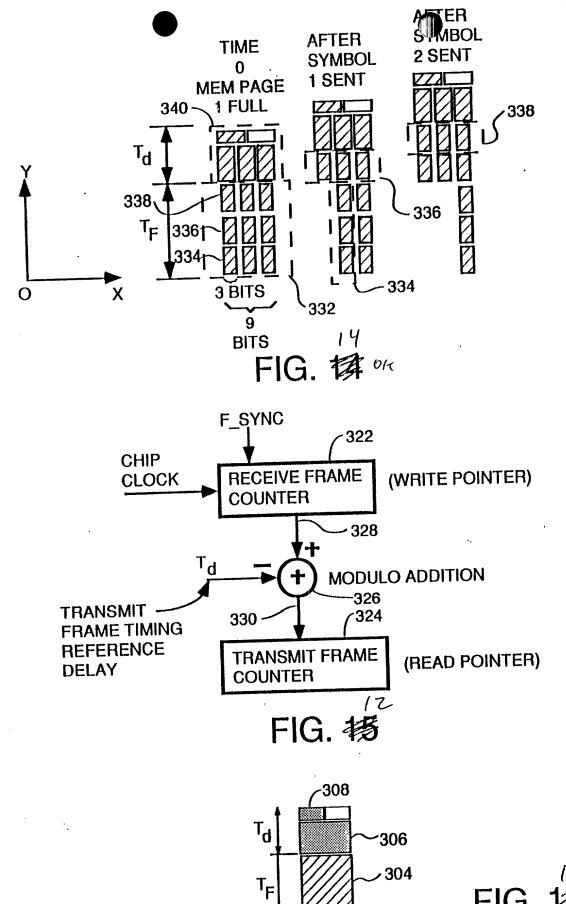
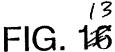


FIG. 148

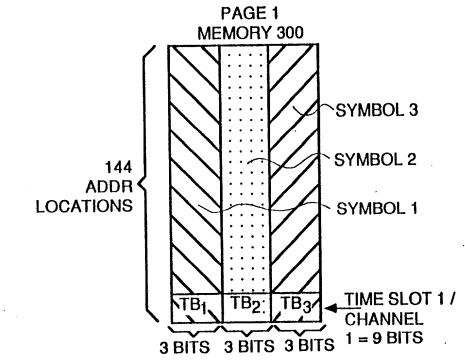
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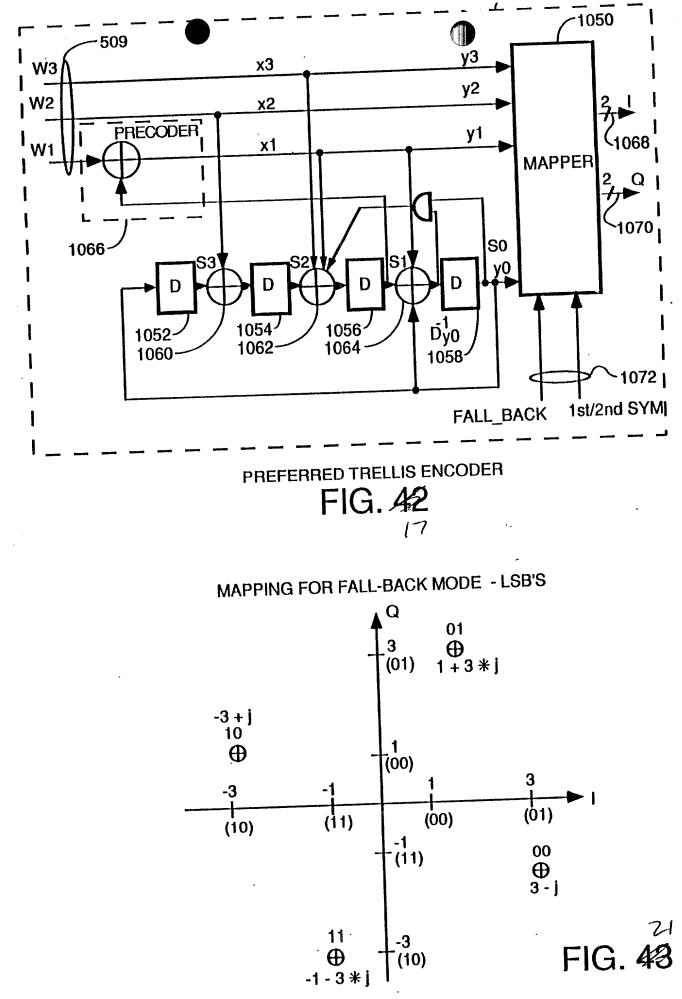
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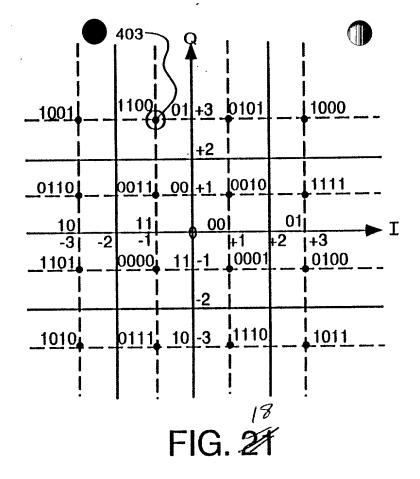
ult.



/6 FIG. **20**

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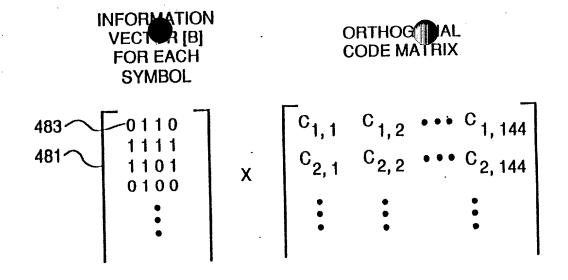


	CODE	INPHASE	QUADRATU	IRE
	0000	111	111	= -1 -
	0001	001	111	<u>j= 1-j</u>
	0010	001	001	= 1+]
	0011	111	001	= -1+]
	0100	011	111	= 3 - j
	0101	001	. 011	<u>= 1+3*</u>
	0110	101	001	<u>= -3 + j</u>
	0111	111	101	= -1 - 3 * j
403-	1000	011	011	=+3 + 3*j
	1001	101	011	= -3 + 3*j
	1010	101	101	<u>= -3 - 3* j</u>
	1011	011	101	= 3 - 3 * j
	(1100	111	011)	= -1+3*
	1101	101	111	<u> </u>
	1110	001	101	= 1 - 3 + j
	<u>1111 .</u>	011	001	= 3 + j

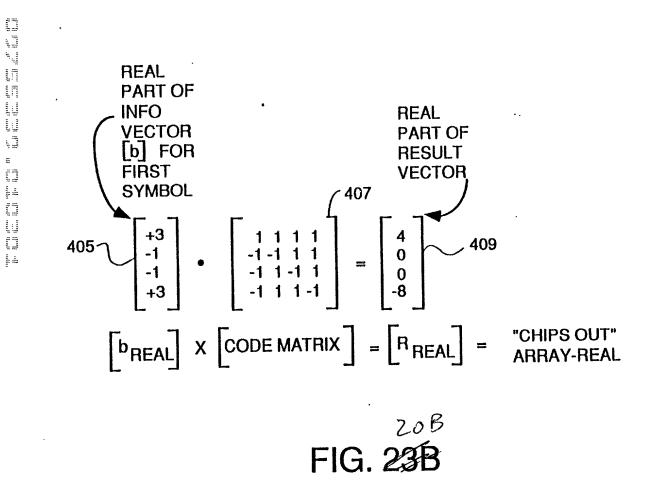
FIG.22

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արտը արտ դապը առան անդել ուսել ուսել ուսել ուսել ուսել երուն ուսել բանուն։ Ուսել ուսել ուսել ենում ենում ենուն ուսել ուսել ենուն ենուն ենուն ենուն ենուն ենուն



20 A FIG. 23A



1+jQ WHEN LSB=11	-1-j3		1+j3	-3+j
1+jQ WHEN LSB=10	-3+j	-1-j3	3-j	1+j3
1+jQ WHEN LSB=01	1+j3	-3+j	-1-j3	3-j
1+jQ WHEN LSB=00	З-ј	1+j3	-3+j	-1-j3
PHASE difference (2nd-1st symbol)	0	06	180	-90
MSBs y3 y2	8	01	10	11

1+jQ	З-ј	1+j3	-3+j	-1-j3	
PHASE	0	90	180	06-	
LSBs y1 y0	00	01	10	11	

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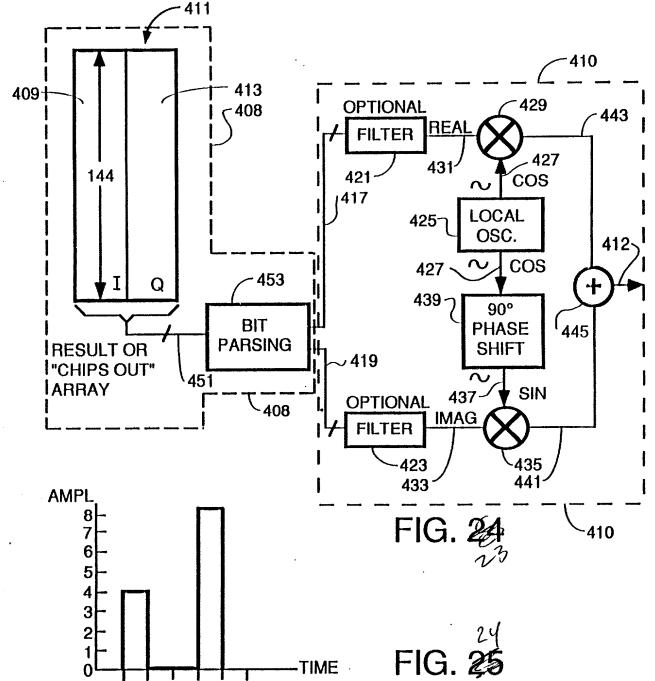
LSB & MSB FALLBACK MODE MAPPINGS FIG. 44 2-2

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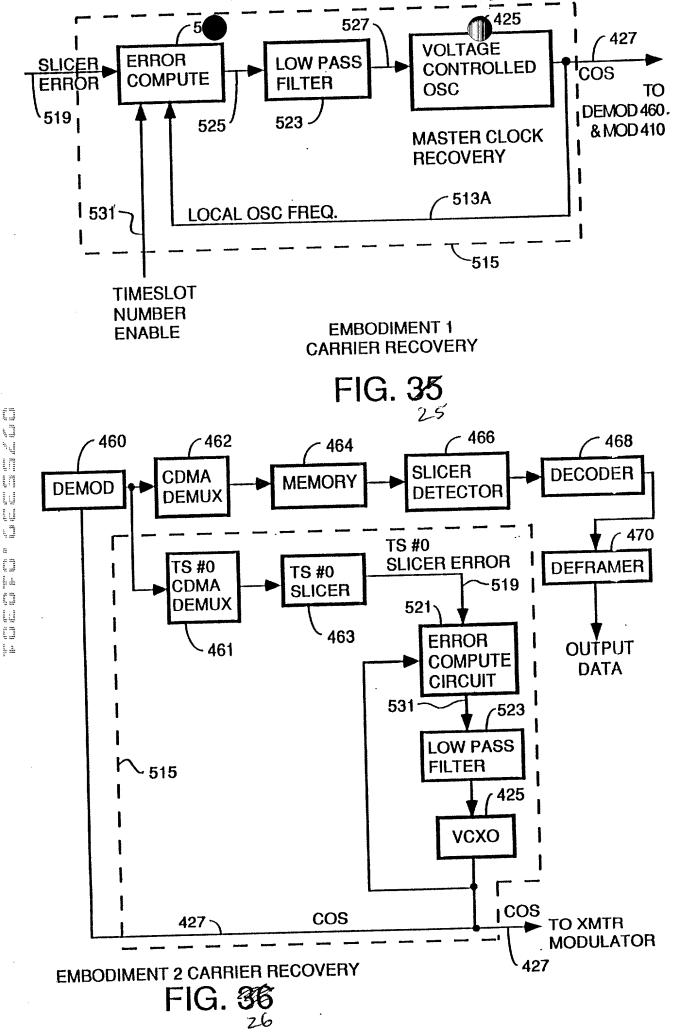
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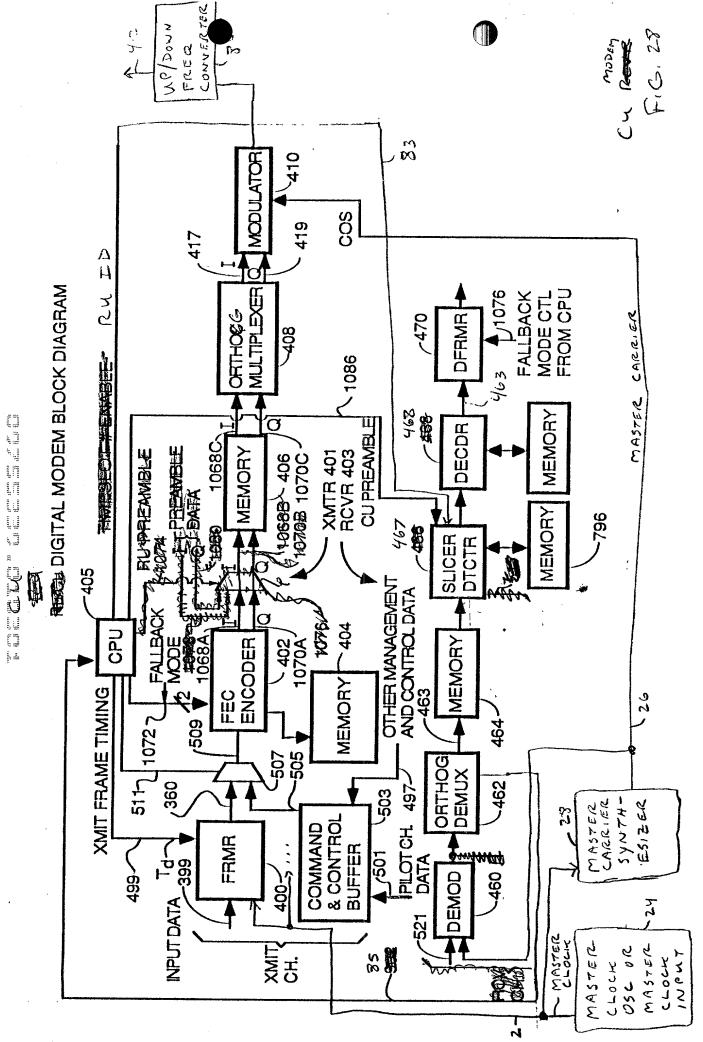
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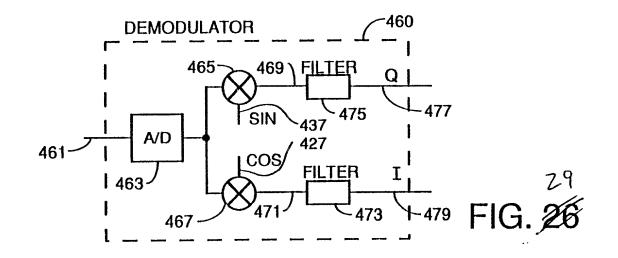


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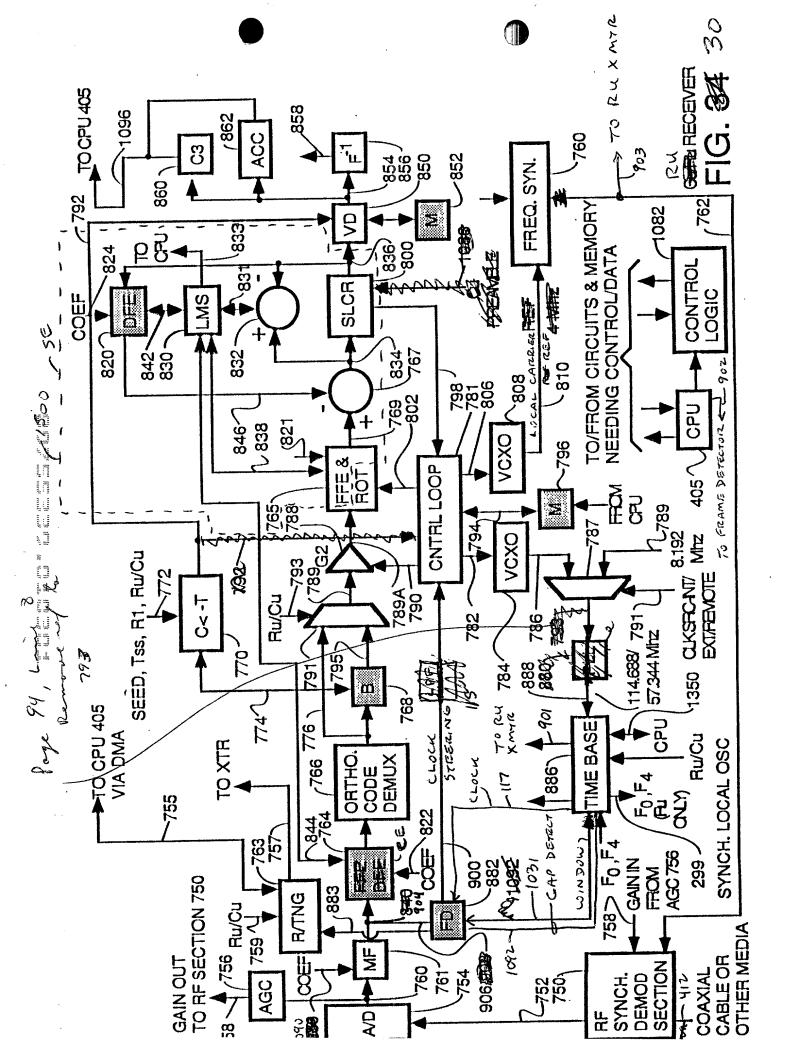
-1512 CU DEVECTS PHASE AND AMPL. RU PERFORMS ERROR FOR THIS RU FROM CAND BLE DATA IN ASSIGNED TS RANGING AND - 1500 ACHIEVES FRAME STORES IN MEMORY LOCATION MAPPED TO SYNCHRONIZATION THIS RU .1514 RU PERFORMS TRAINING TO SET AS PAYLOAD DATA FROM 1502 THIS RU IS RELEIVED, THE LOEFFICIENTS CPU LOOKS OF ITS FILTERS WP CU AND AMPLITUDE PHASE ERROR FOR THIS FUR PROPER RU AND SENDS TO EQUALIZATION CONTROL LIRCUITRY FOR A ROTATIONAL 1505 1504 AMPLIFIER & G2 AMPL. YES IDLE 7 \$G2 -1516 NO 1506 ROTATIONAL LAMPLIFIERS CORRECTS PHASE LOF RU REQUESTS TO INCOMING DATA BANDWIDTH FROM PHASE OF MASTER CLOCK CU USING ASH MOD SO SAMPLING OF RELEIVED DAYA POINTS 1508 OCCURS AT PROPER (4 AWARUS BANDWIDTH IN THE FORM OF ONE TIMES OR MORE TIMESLOTS TO THIS RU ASSIGNED -1510 RU SENDS KNOWN PREAMBLE DATA IN ASSIGNED TIMESLOTS FIG. 27

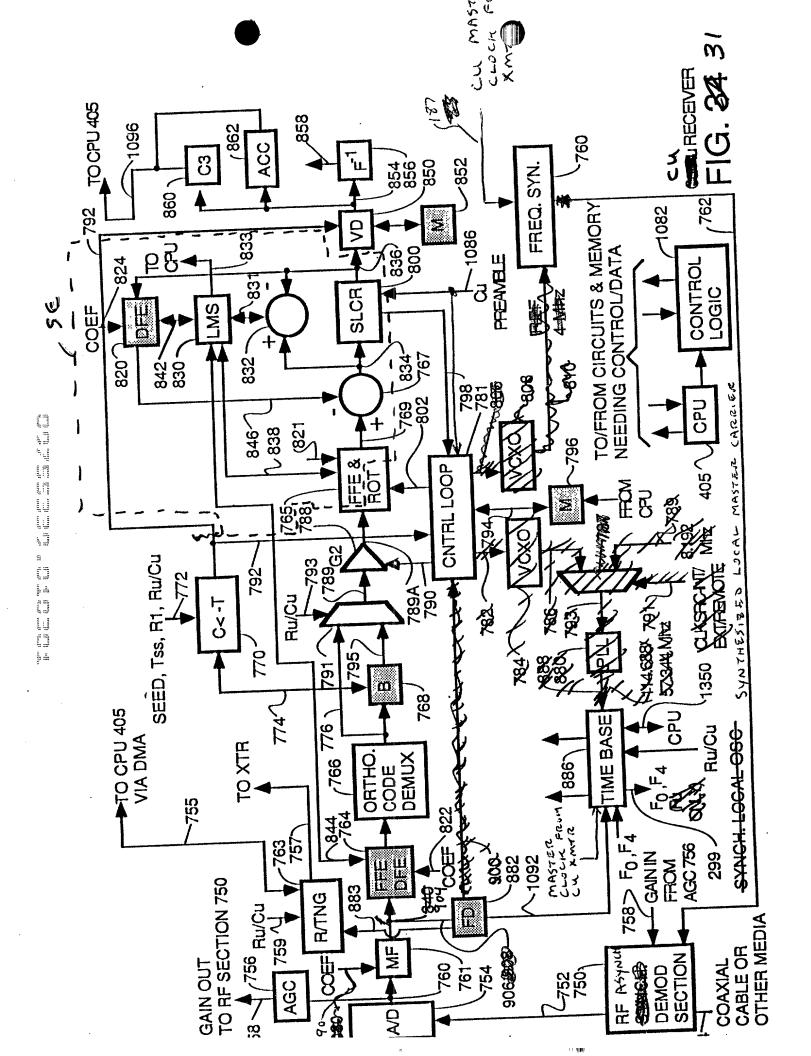
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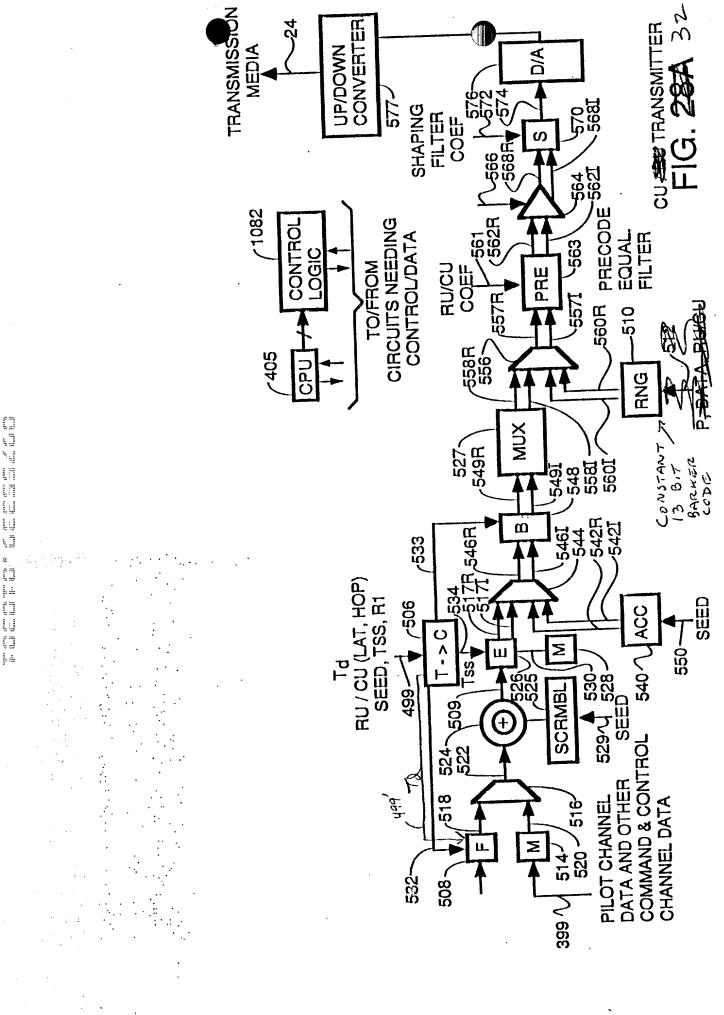


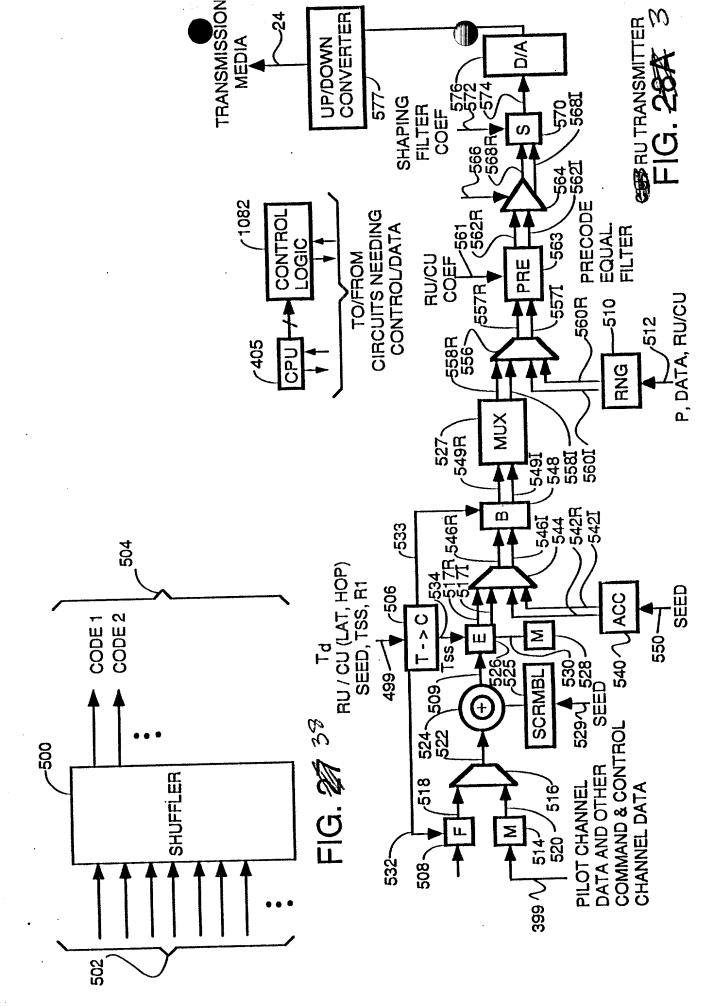


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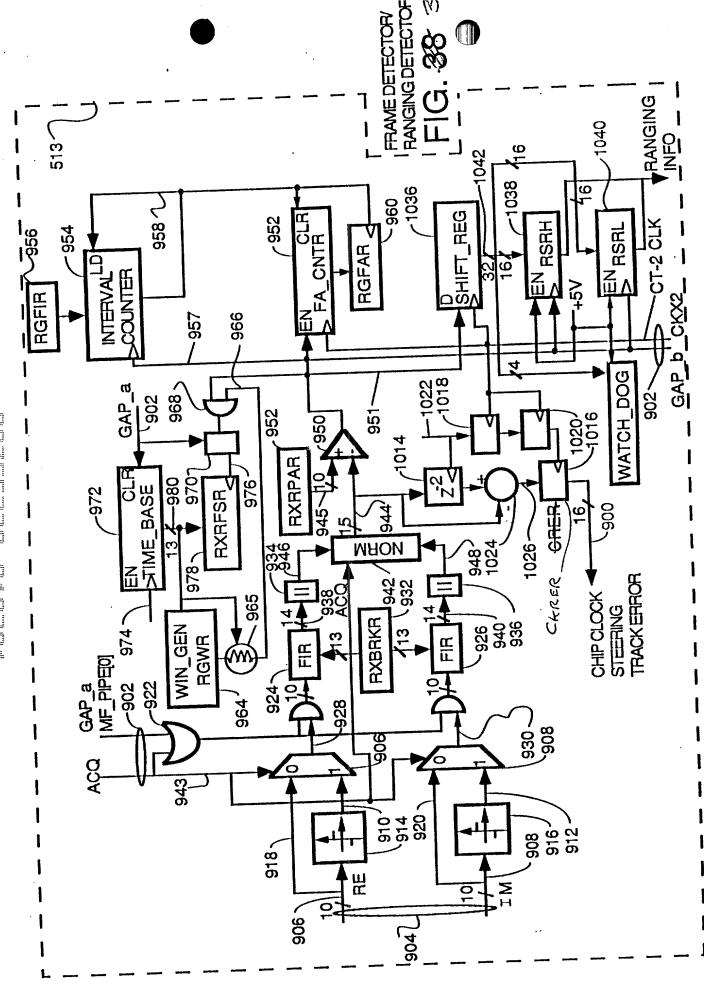




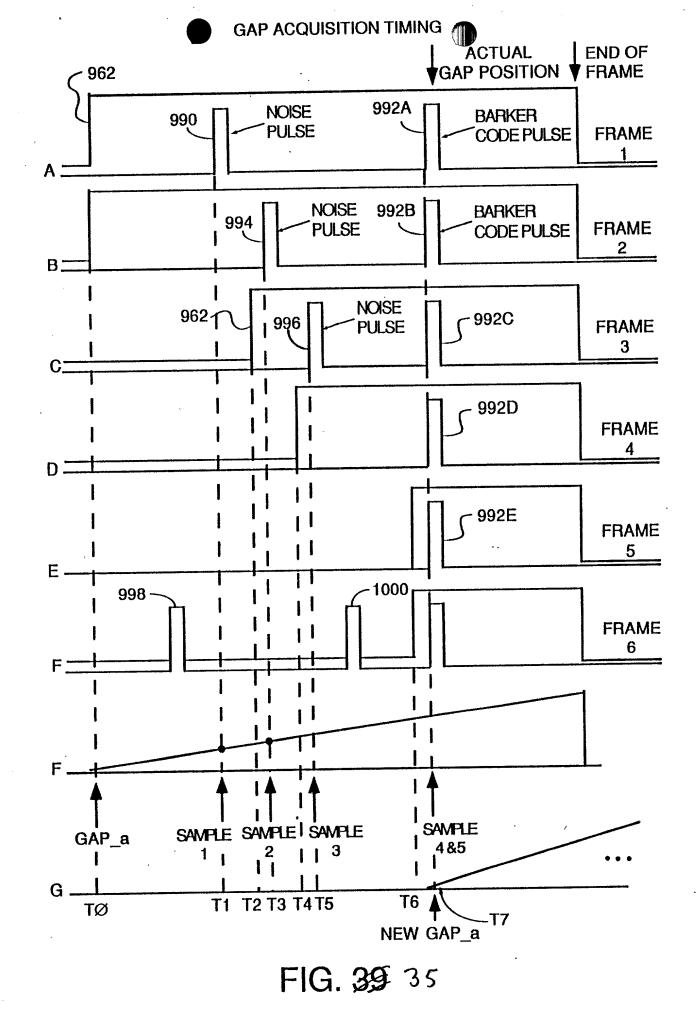


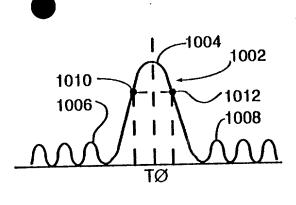


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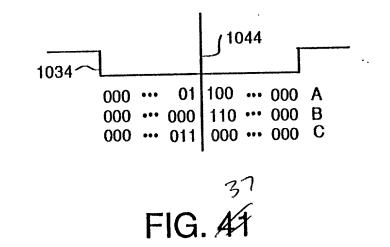


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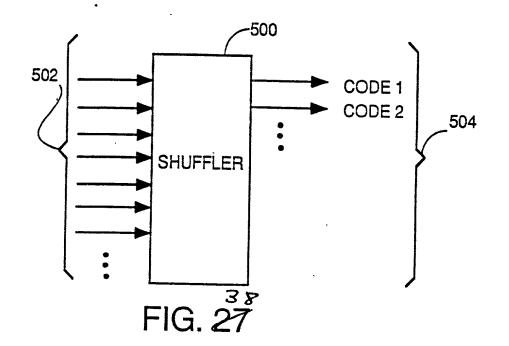


36 FIG. **40**



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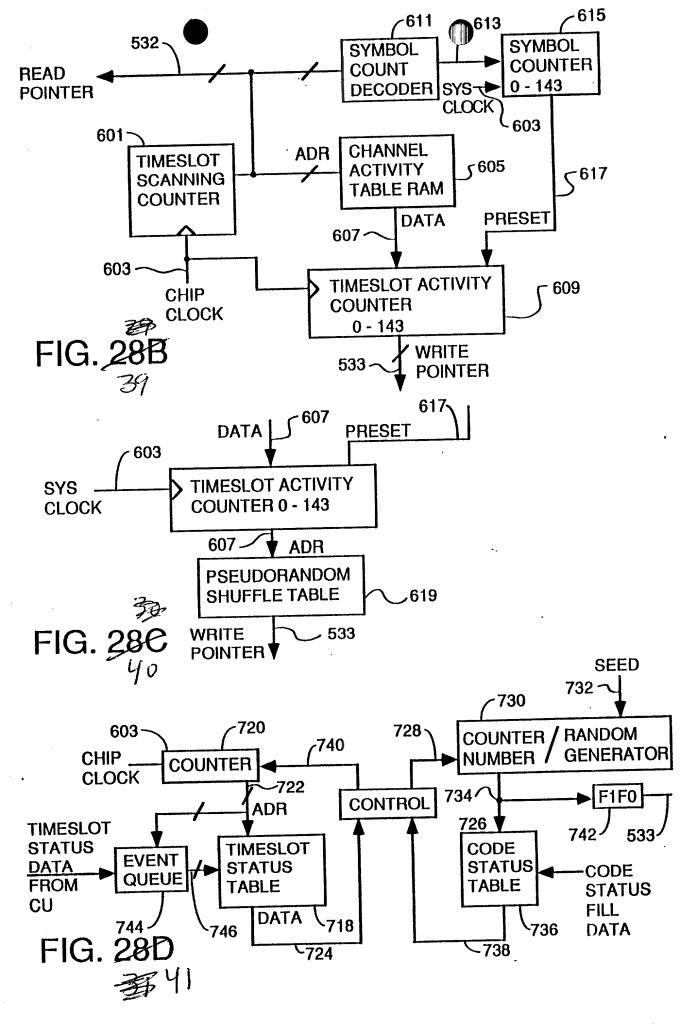


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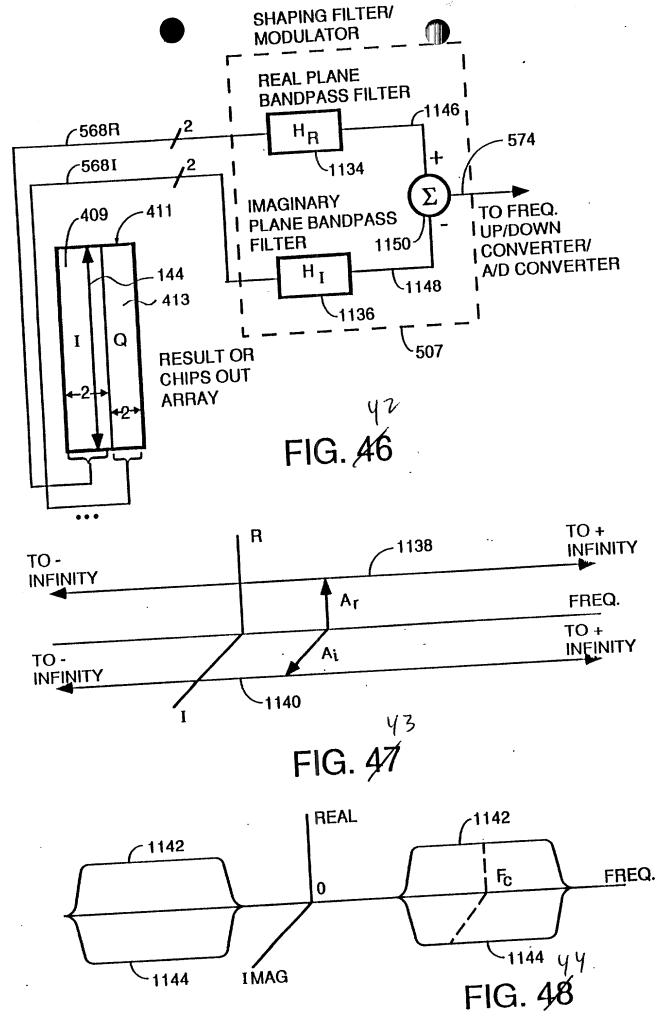
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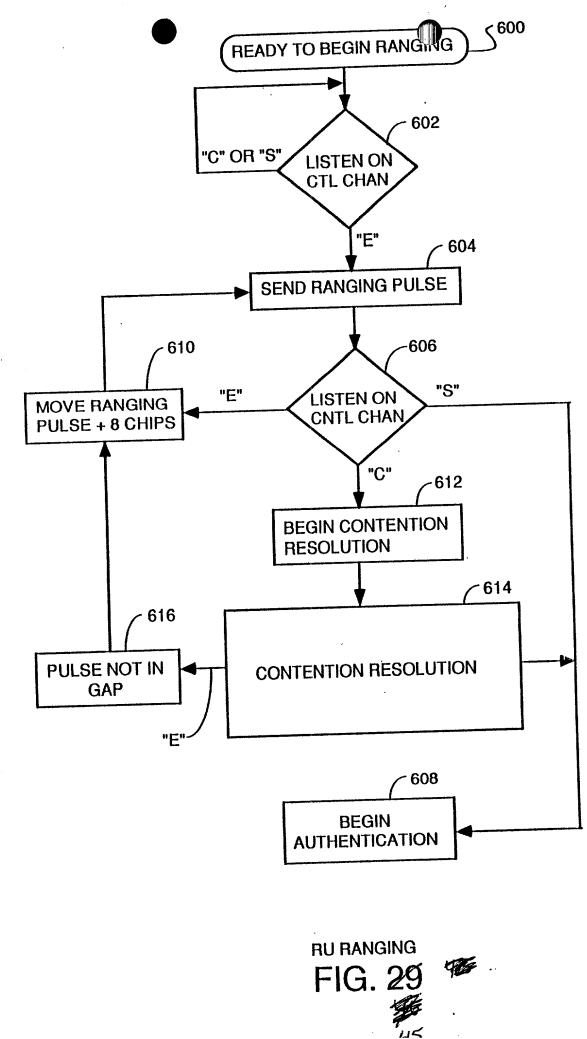
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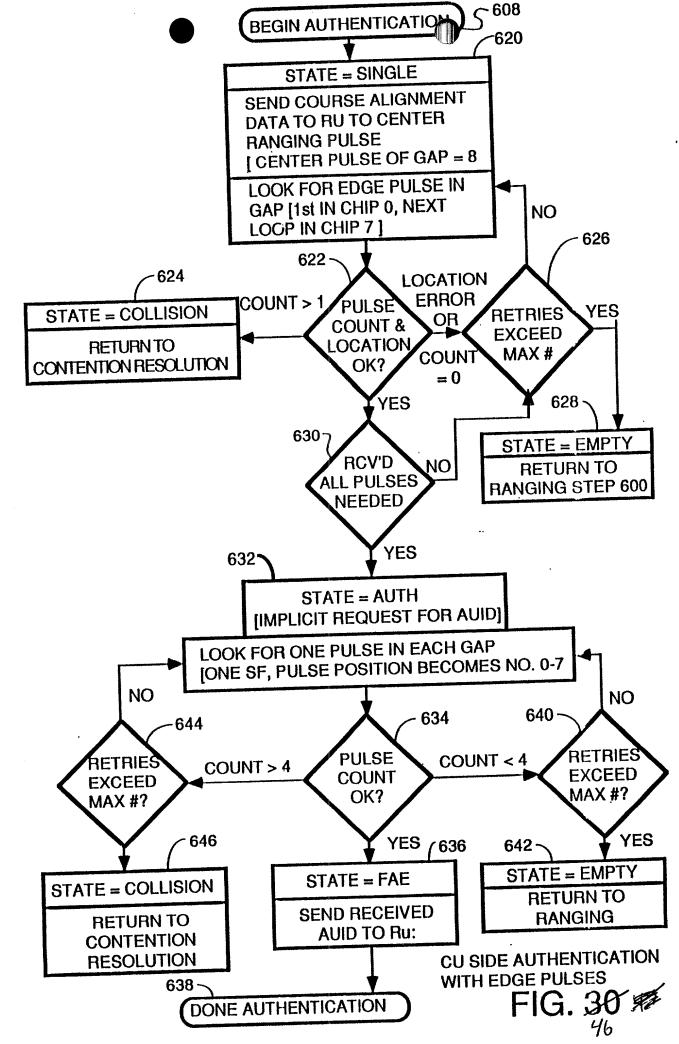
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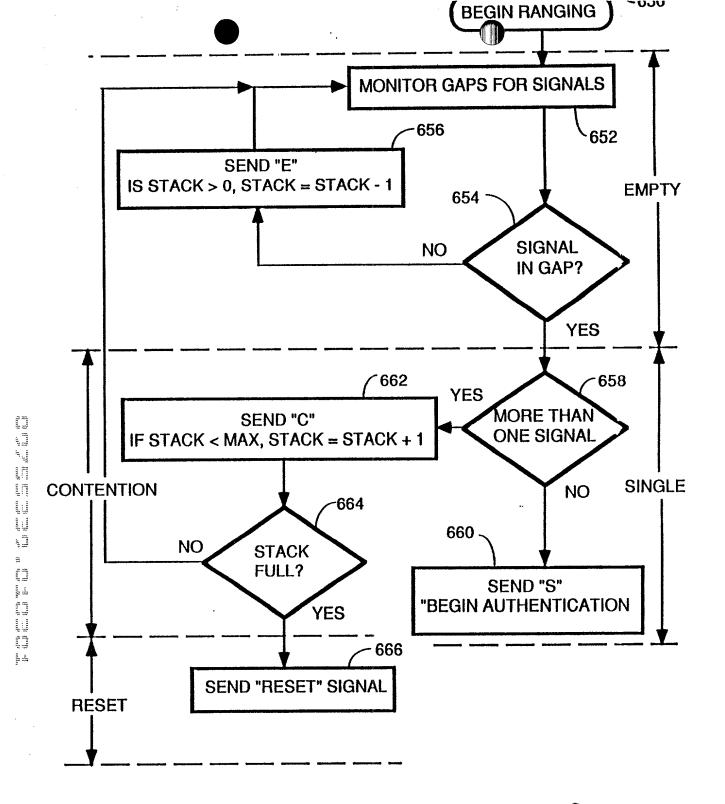
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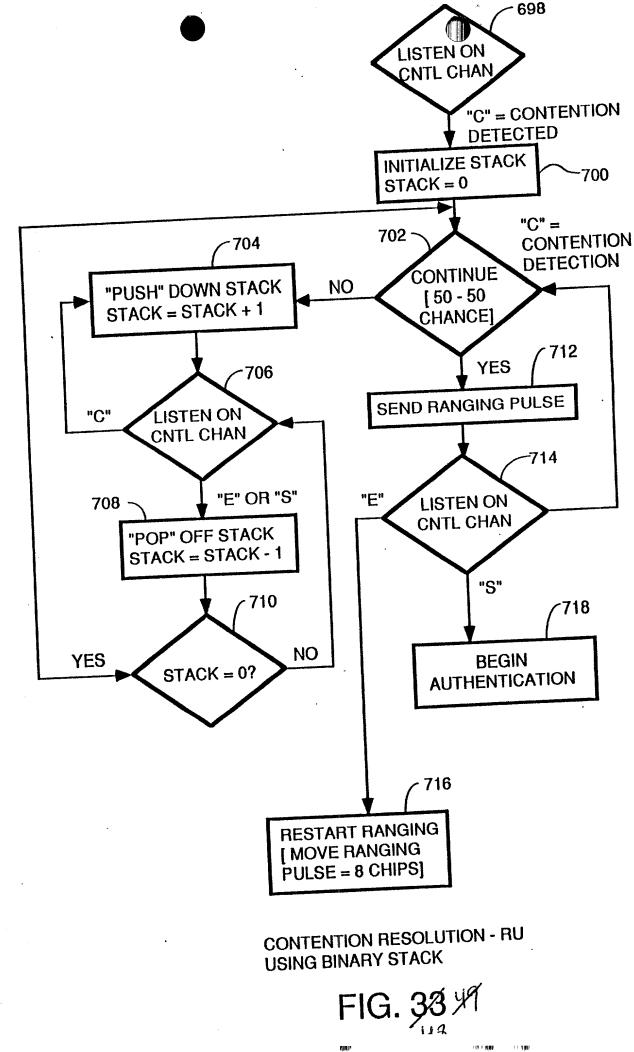


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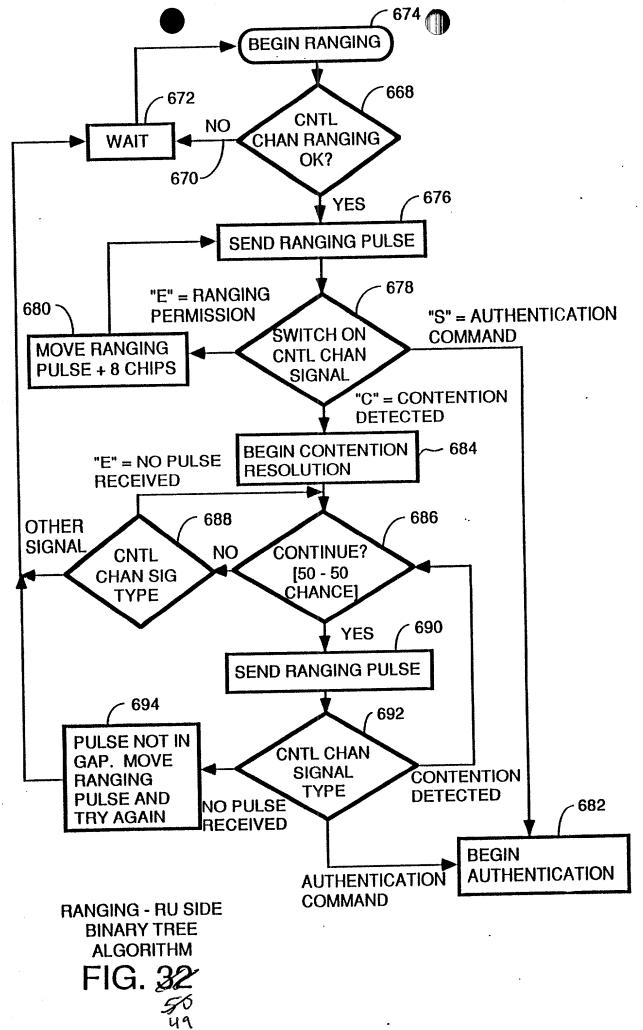


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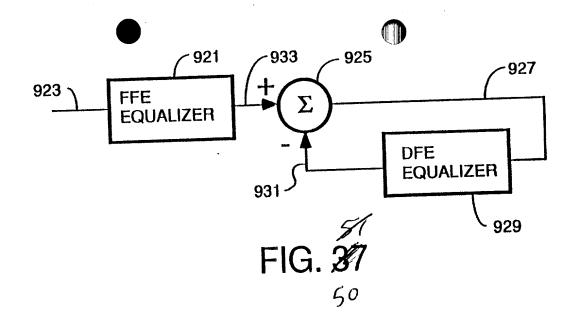
FIG. 31 48



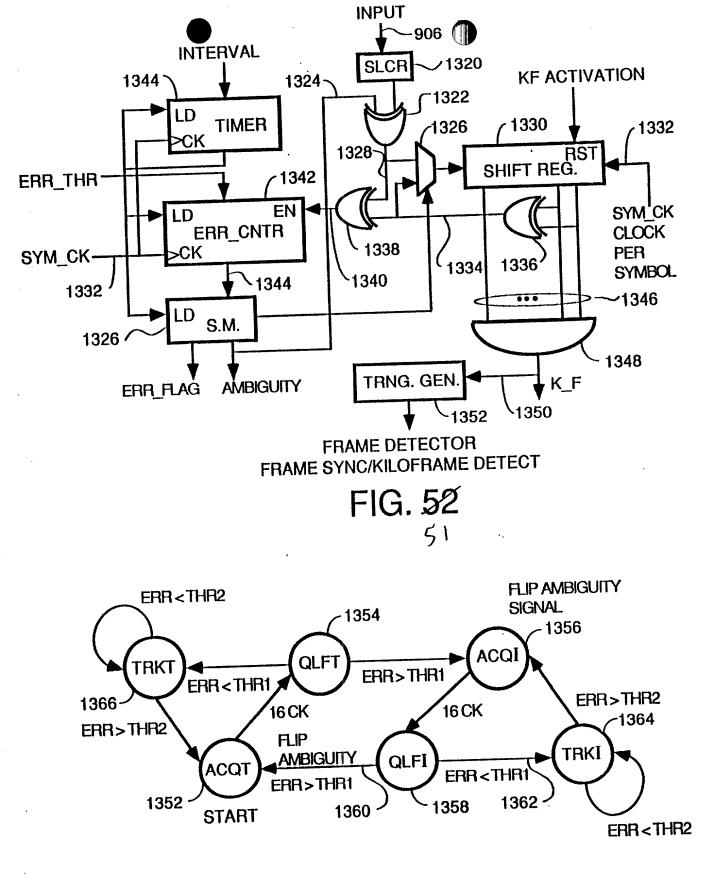
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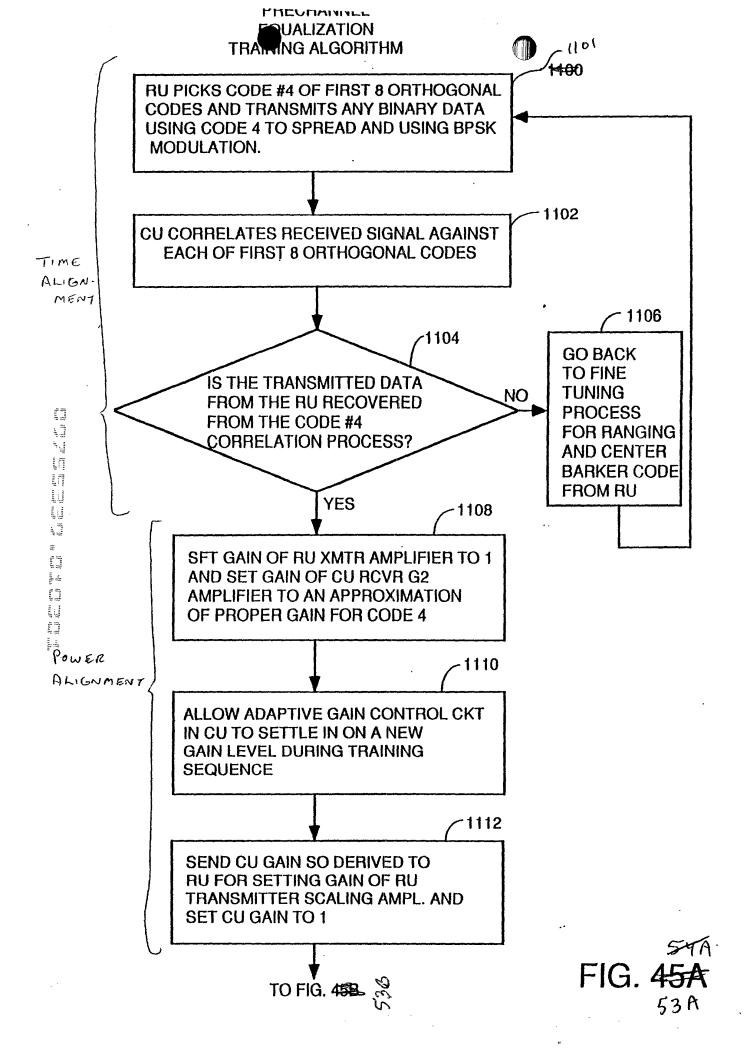


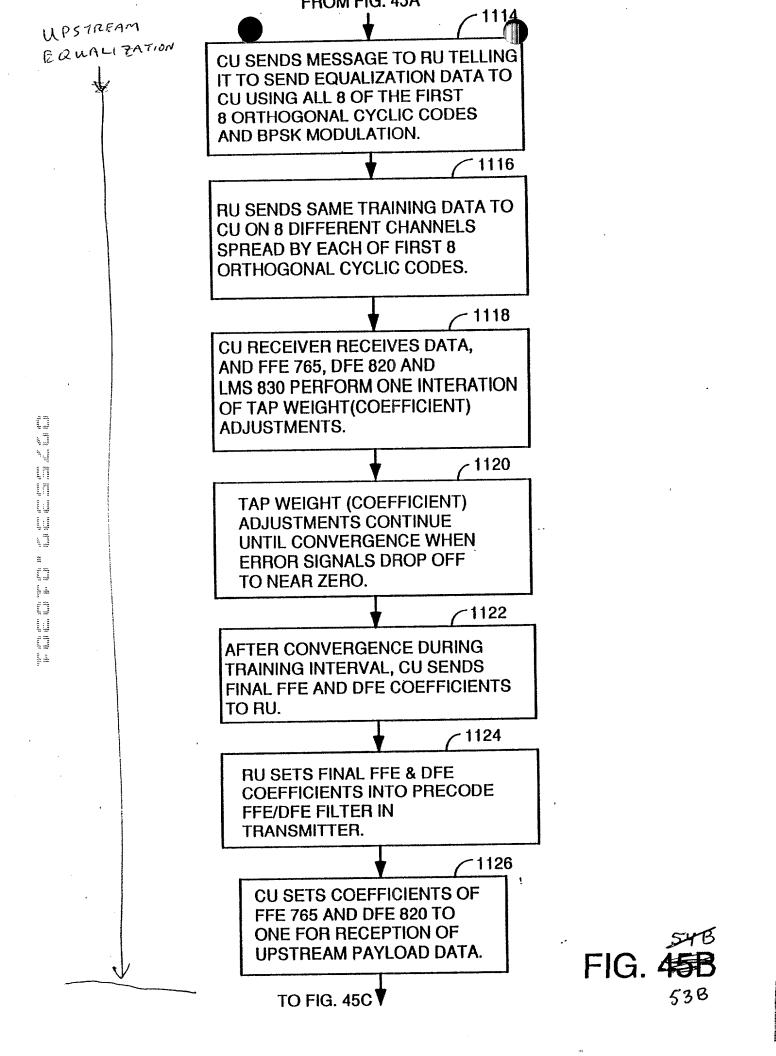
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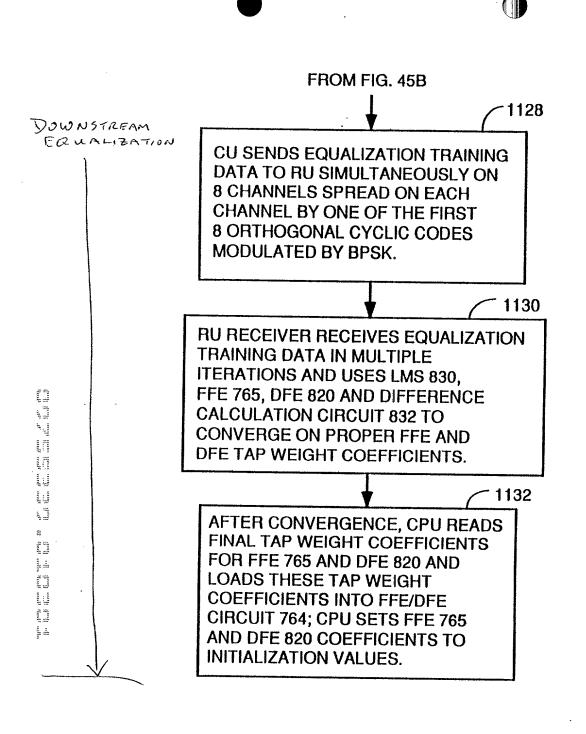


STATE MACHINE FIG. 53 5v

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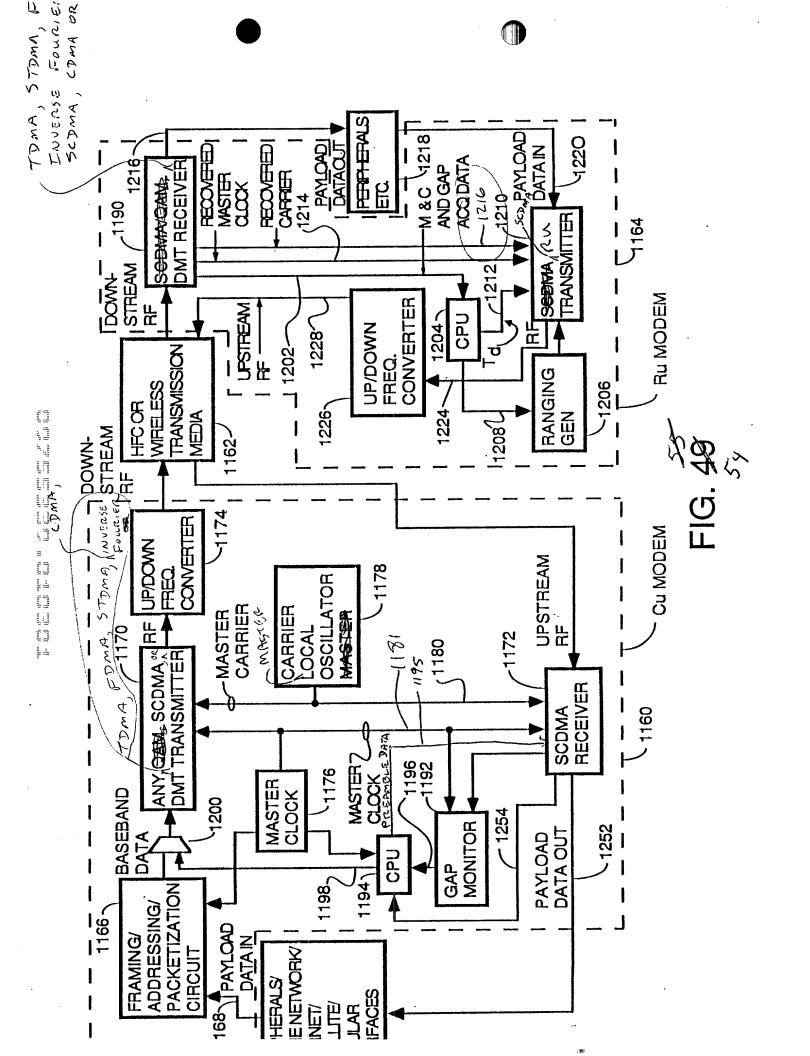






570 FIG. 490 530

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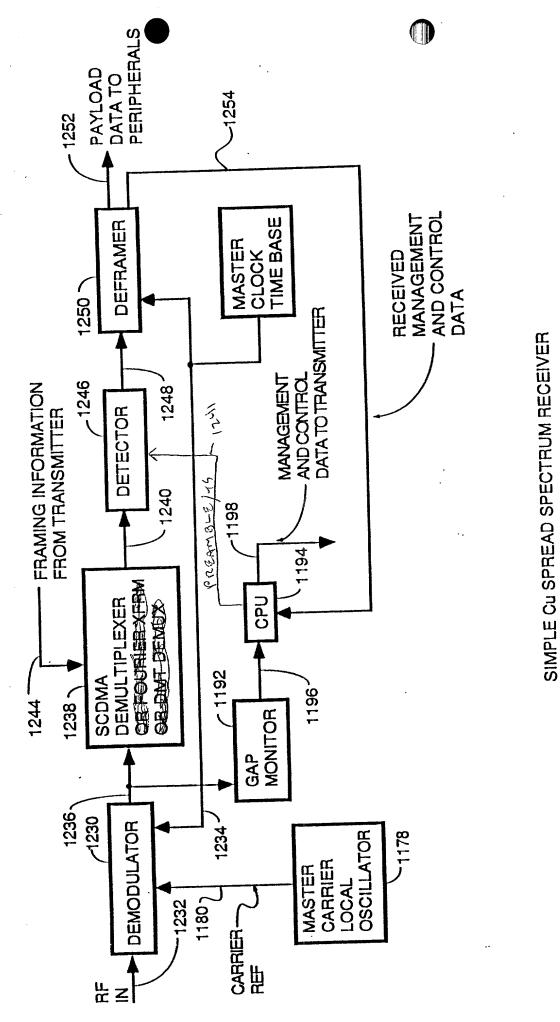
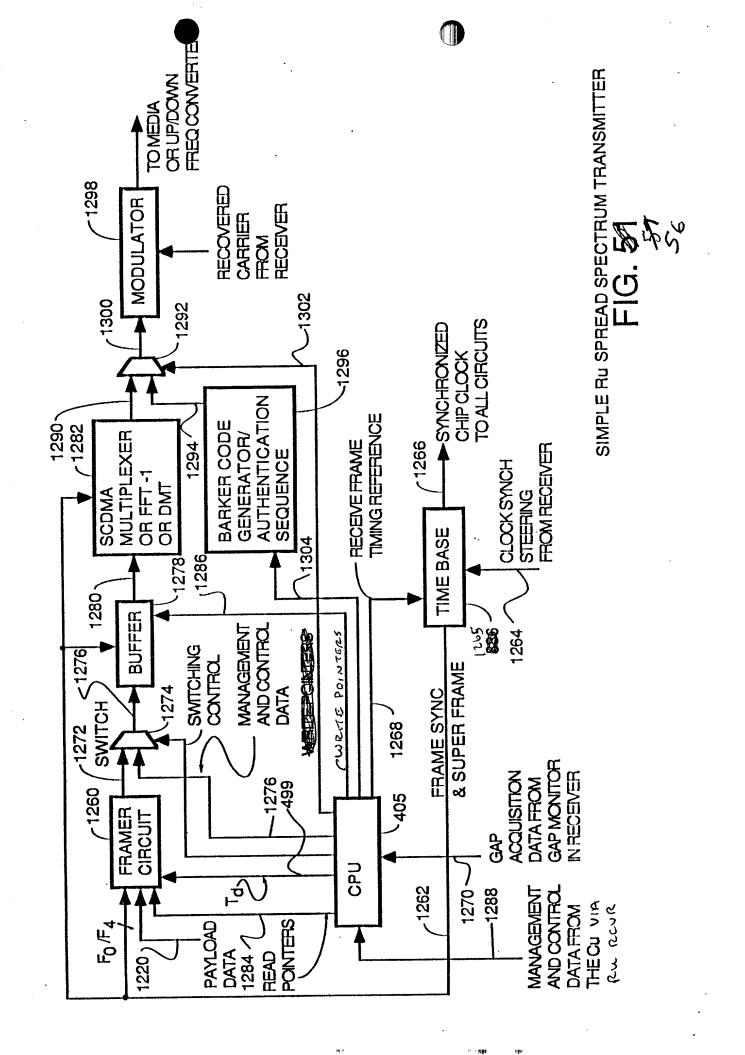
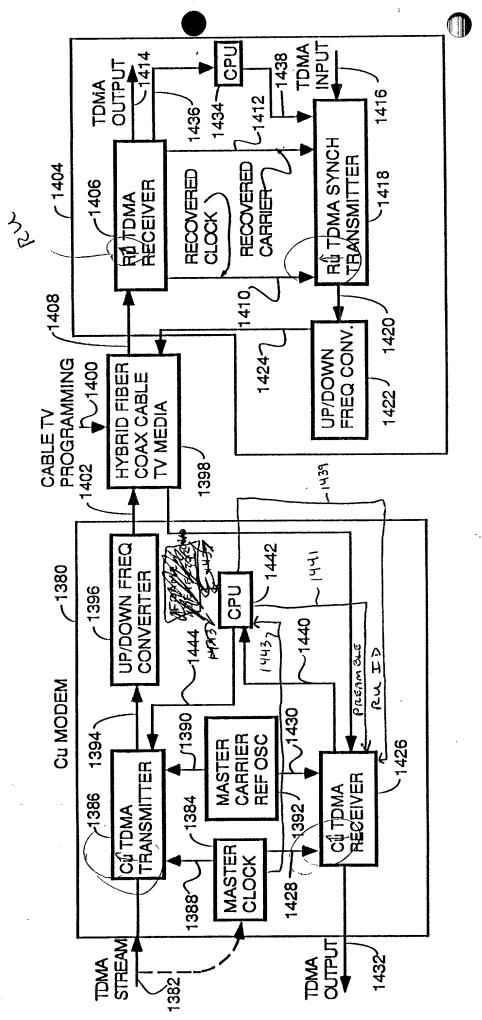


FIG. 50 % S.

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SYNCHRONOUS TDMA SYSTEM <u>С.</u> Д. Д. Д. С.

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OFFSET	1B ASIC	2A ASIC			
(Chips)	RGSRH RGSRL	RGSRH RGSRL			
0	0x0000 0x8000	0x0001 0x0000			
1/2	0x0000 0xC000	0x0001 0x8000			
1	0x0000 0x4000	0x0000 0x8000			
-1	0x0001 0x0000	0x0002 0x0000			

Training Algorithm

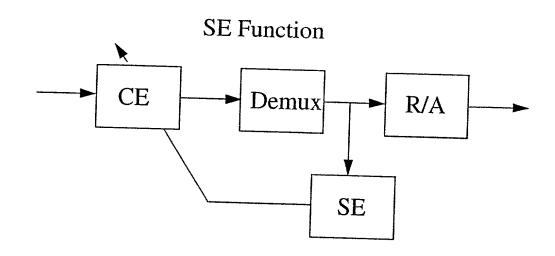
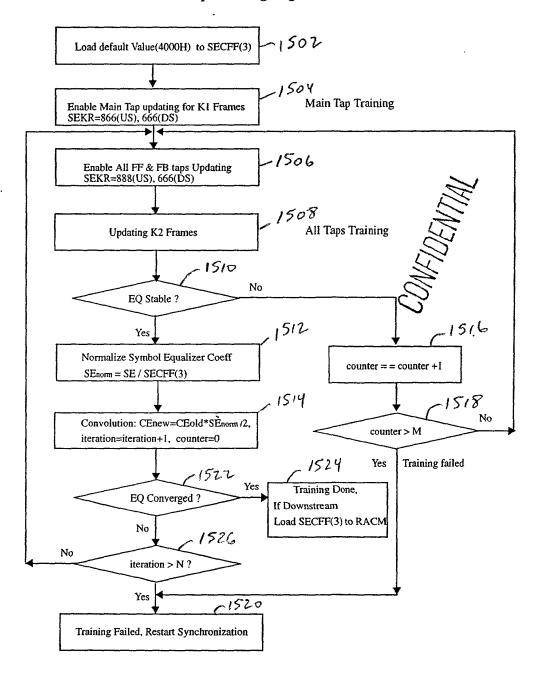


FIG. 59

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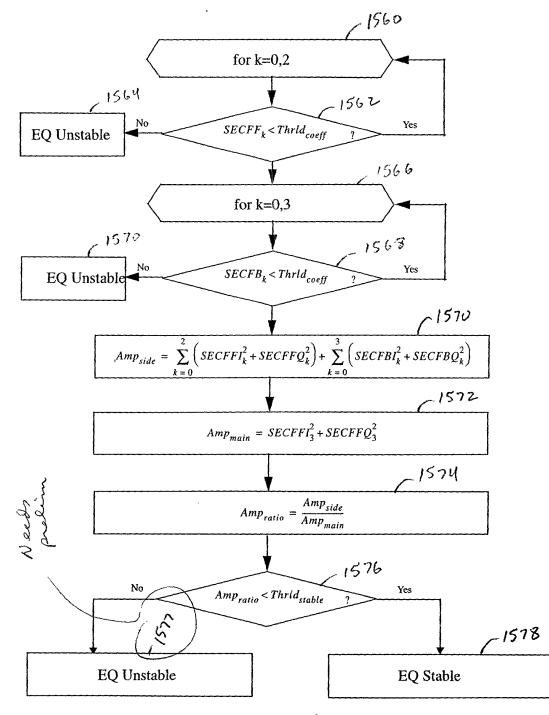
and the and



Initial 2-Step Training Algorithm

2-STEP INITIAL EQUALIZATION TRAINING FIG. 60





Note: $Thrld_{coeff} = 7F00H$ $Thrld_{stable} = 10^{-3}$

F16.61





Periodic 2-Step Training Algorithm

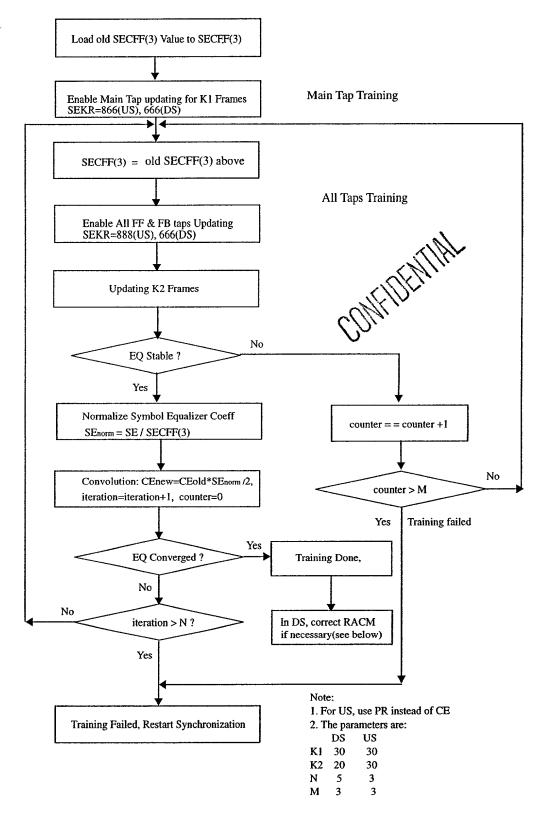
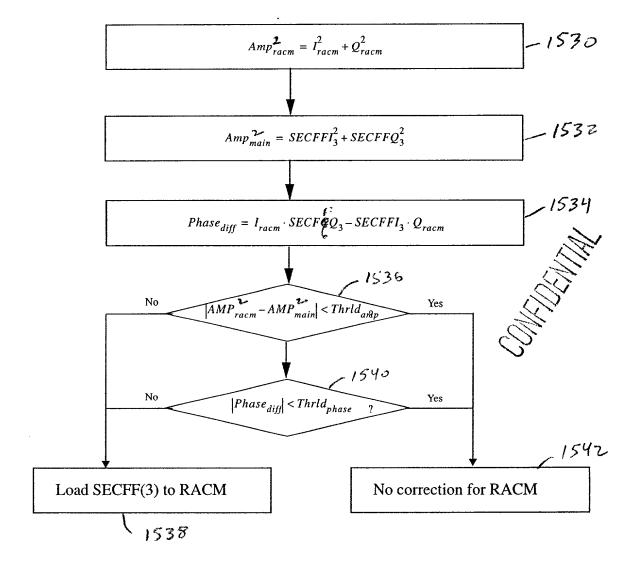
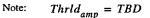


FIG. 62

and in



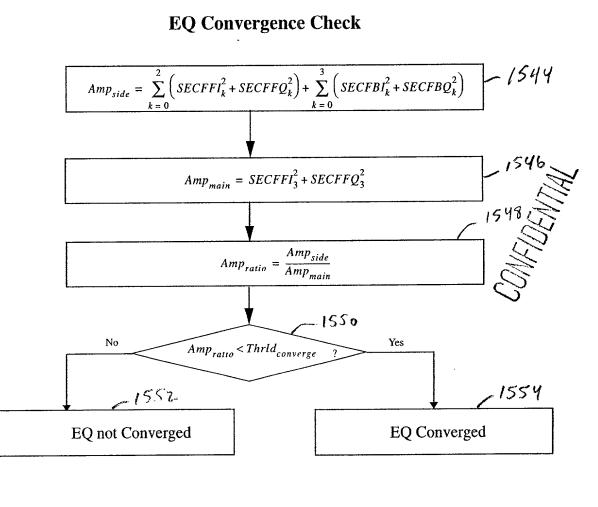




 $Thrld_{phase} = TBD$

ROTATIONAL AMPLIFIER CORRECTION

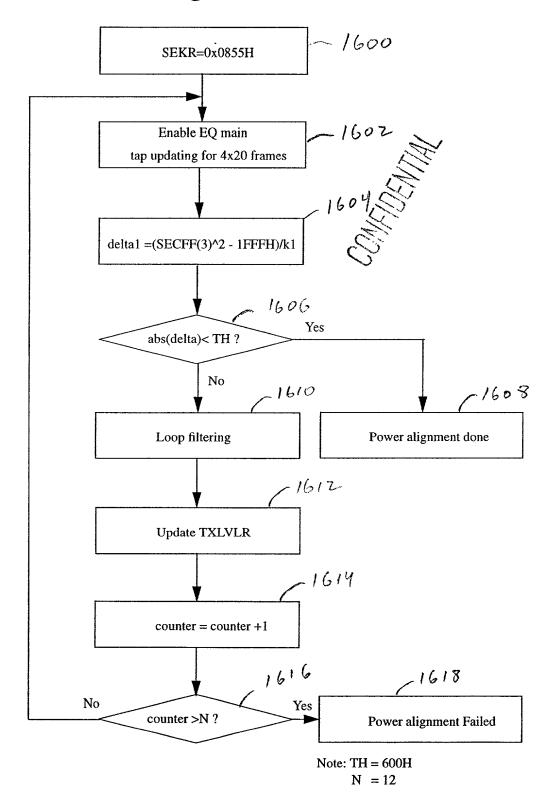
FIG. 63.



Note: $Thrld_{converge} = 10^{-5}$

FIG. 64

1.0

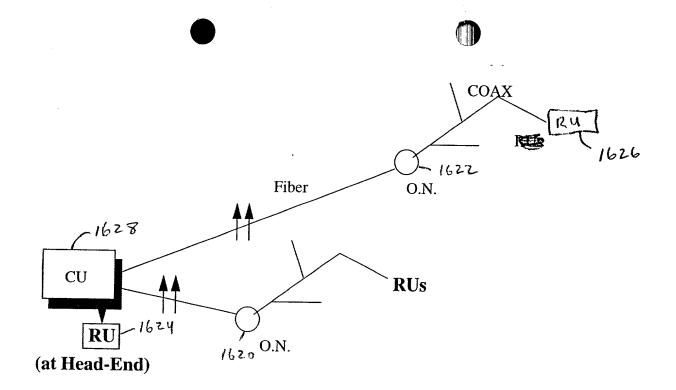


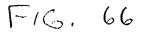
Power Alignment Flow Chart

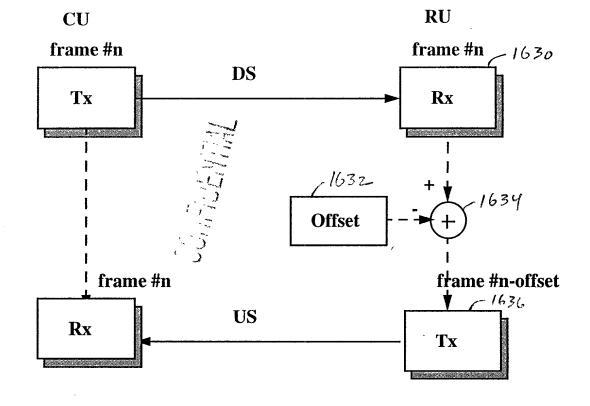
FIG. 65

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Total Turn Around (TTA) in frames = Offset

FIG. 67

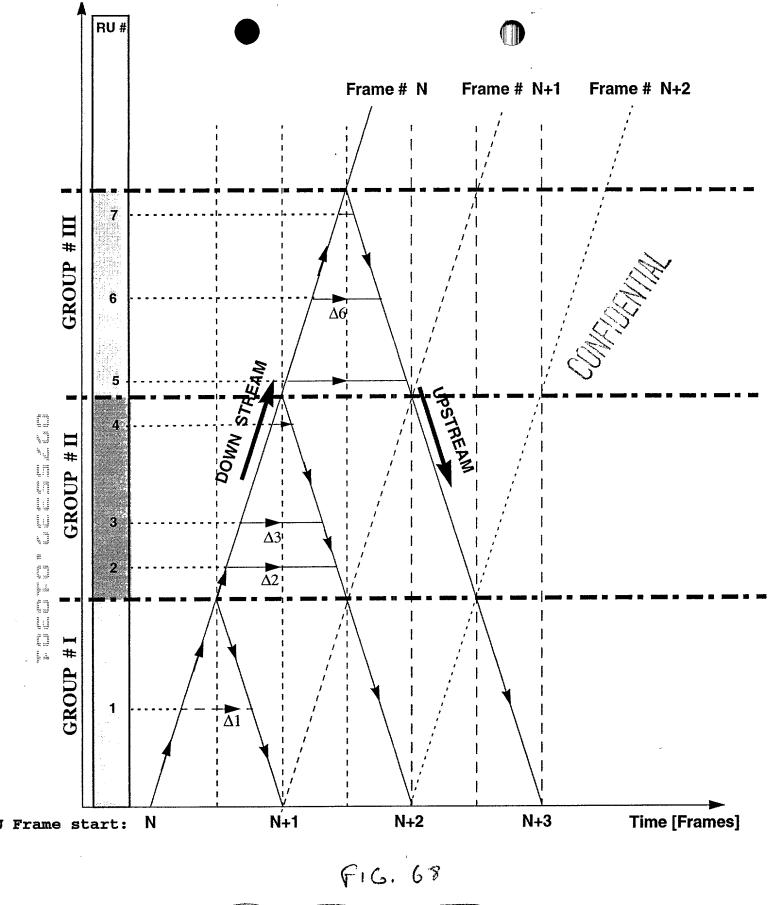


Figure 3.1. Framestart propagation along the channel-

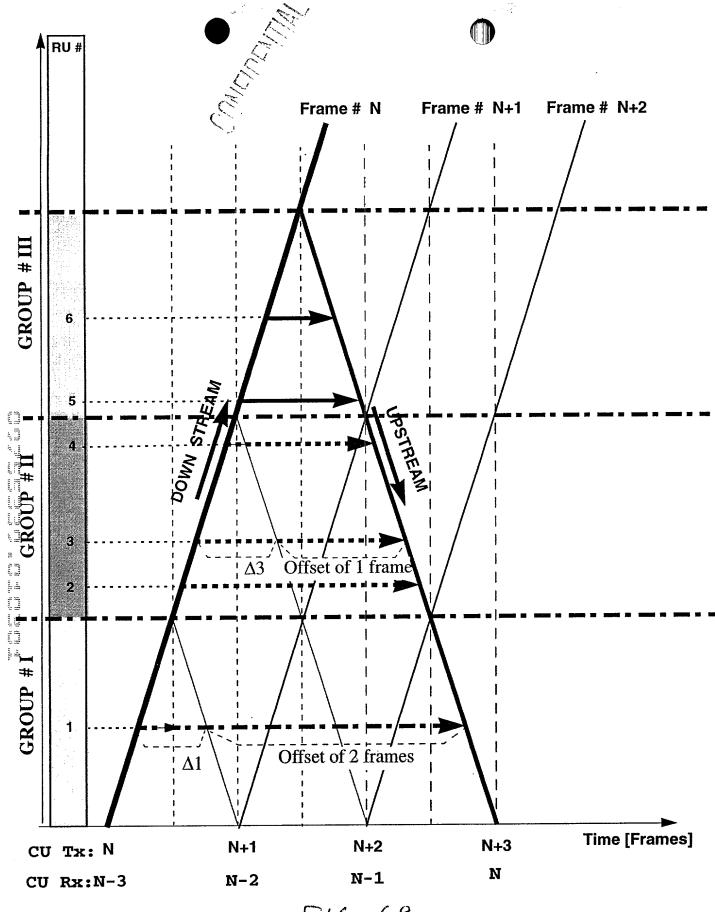
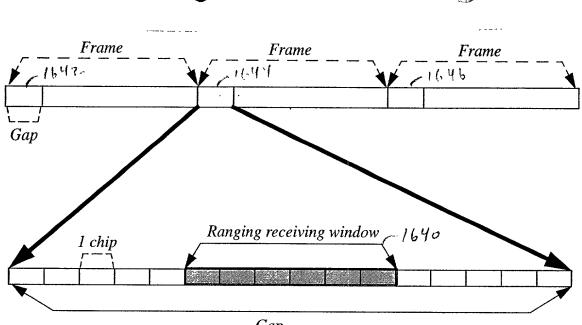


FIG. 69

Egues Control message (downstream) and function (upstream) propagation in a 3 frames TTA channel

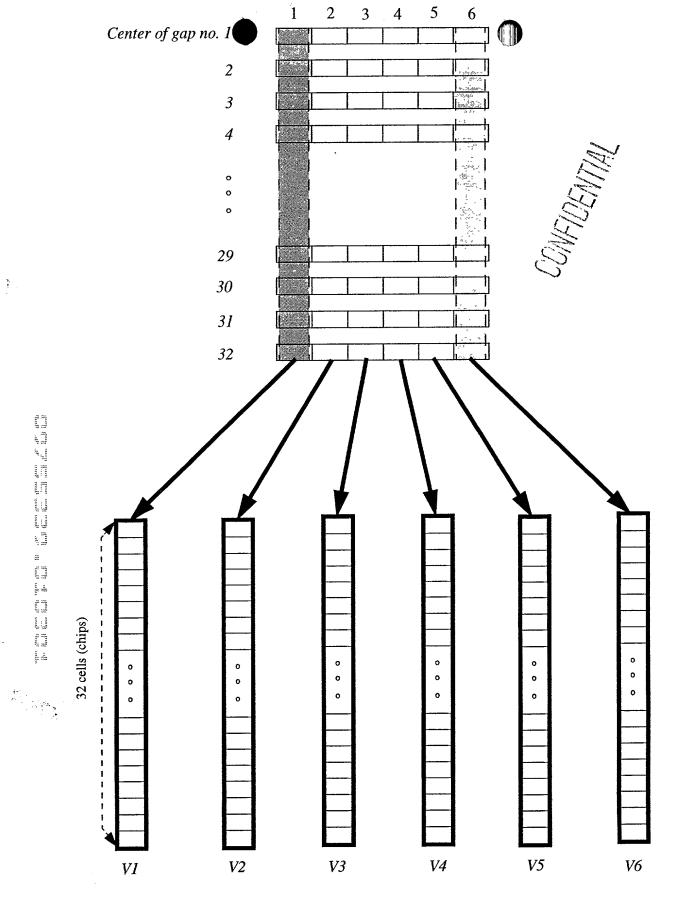
đ,

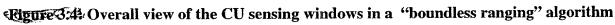




F16.70

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F16.71

Chip\FR	1	2	3	4	5	6	7		33
1	0	0	1	0	0	1	1		0
2	1	0	0	1	1	1	1		-
3	0	0	0	1	1	1			
4	0	0	0	1	0	0	0		0
5	0	1	0	0	1			-	1
6	0	0	1	1	1				
7	0	0	0	1	1				
8	0	0	0	0	1	0	0		

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FIG. 72

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